## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/573, 796
Source:	TFWP
Date Processed by STIC:	02/10/2007
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## ENTERED



**IFWP** 

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RAW SEQUENCE LISTING DATE: 02/10/2007 PATENT APPLICATION: US/10/573,796 TIME: 09:20:55

Input Set : E:\seglist.txt

Output Set: N:\CRF4\02102007\J573796.raw

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4 <110> APPLICANT: REILING, KEITH KINKEAD
          NEWMAN, JACK D.
       5
       6
              WITHERS III, SYDNOR T.
              PITERA, DOUGLAS J.
       7
              KEASLING, JAY D.
       8
             MARTIN, VINCENT J.J.
      11 <120> TITLE OF INVENTION: METHODS FOR IDENTIFYING A BIOSYNTHETIC PATHWAY GENE PRODUCT
      13 <130> FILE REFERENCE: BERK-032
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/573,796
- C--> 16 <141> CURRENT FILING DATE: 2005-03-27
                                                                        16 <150> PRIOR APPLICATION NUMBER: US2004/032407
      17 <151> PRIOR FILING DATE: 2004-09-29
      19 <150> PRIOR APPLICATION NUMBER: 60/507,220
      20 <151> PRIOR FILING DATE: 2003-09-29
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      39 <212> TYPE: DNA
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      53 <220> FEATURE:
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      61 <212> TYPE: DNA
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RAW SEQUENCE LISTING DATE: 02/10/2007
PATENT APPLICATION: US/10/573,796 TIME: 09:20:55

Input Set : E:\seqlist.txt

Output Set: N:\CRF4\02102007\J573796.raw

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    68 gagtattacc tcctatttat caagataagt ttc
    70 <210> SEQ ID NO: 5
    71 <211> LENGTH: 42
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  '72' <212> TYPE: DNA
    73 <213> ORGANISM: Artificial Sequence
    75 <220> FEATURE:
    76 <223> OTHER INFORMATION: primer
    78 <400> SEQUENCE: 5
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    93 <211> LENGTH: 45
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    104 <211> LENGTH: 34
    105 <212> TYPE: DNA
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    108 <220> FEATURE:
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    115 <211> LENGTH: 46
    116 <212> TYPE: DNA
    117 <213> ORGANISM: Artificial Sequence
    119 <220> FEATURE:
    120 <223> OTHER INFORMATION: primer
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Input Set : E:\seqlist.txt

Output Set: N:\CRF4\02102007\J573796.raw

130 <220> FEATURE: 131 <223> OTHER INFORMATION: primer 133 <400> SEQUENCE: 10 134 aqtqtaatcc tccttatttt ttaacatcgt aag 33 136 <210> SEQ ID NO: 11 137 <211> LENGTH: 46 138 <212> TYPE: DNA 130 <212> TYPE: DNA 139 <213> ORGANISM: Artificial Sequence 141 <220> FEATURE: 142 <223> OTHER INFORMATION: primer 144 <400> SEQUENCE: 11 145 ttaaaaaata aggaggatta cactatggtt ttaaccaata aaacag 46 147 <210> SEQ ID NO: 12 148 <211> LENGTH: 35 149 <212> TYPE: DNA 150 <213> ORGANISM: Artificial Sequence 152 <220> FEATURE: 153 <223> OTHER INFORMATION: primer 155 <400> SEQUENCE: 12 156 atcgtcgact taggatttaa tgcaggtgac ggacc 158 <210> SEQ ID NO: 13 159 <211> LENGTH: 40 160 <212> TYPE: DNA 161 <213> ORGANISM: Artificial Sequence 163 <220> FEATURE: 164 <223> OTHER INFORMATION: primer 166 <400> SEQUENCE: 13 40 167 atcccgggag gaggattact atatgcaaac ggaacacgtc 169 <210> SEQ ID NO: 14 170 <211> LENGTH: 28 171 <212> TYPE: DNA 172 <213> ORGANISM: Artificial Sequence 174 <220> FEATURE: 175 <223> OTHER INFORMATION: primer 177 <400> SEQUENCE: 14 28 178 atcccgggtt atttaagctg ggtaaatg 180 <210> SEQ ID NO: 15 181 <211> LENGTH: 43 182 <212> TYPE: DNA 183 <213> ORGANISM: Artificial Sequence 185 <220> FEATURE: 186 <223> OTHER INFORMATION: primer 188 <400> SEQUENCE: 15 189 agatccgcgg aggaggaatg agtaatggac tttccgcagc aac 43 191 <210> SEQ ID NO: 16 192 <211> LENGTH: 81 193 <212> TYPE: DNA 194 <213> ORGANISM: Artificial Sequence

196 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 02/10/2007 PATENT APPLICATION: US/10/573,796 TIME: 09:20:55

Input Set : E:\seqlist.txt

Output Set: N:\CRF4\02102007\J573796.raw

197 <223> OTHER INFORMATION: primer 199 <400> SEQUENCE: 16 200 agtgagagct cttatttatt acgctggatg atgttgggct agcaggagga attcaccatg 60 201 agttttgata ttgccaaata c 203 <210> SEQ ID NO: 17 204 <211> LENGTH: 50 205 <212> TYPE: DNA in the second of 206 <213> ORGANISM: Artificial Sequence 208 <220> FEATURE: 209 <223> OTHER INFORMATION: primer 211 <400> SEQUENCE: 17 212 tctgagcaac gaacgaagca tatatttatg tcctccaggc cttgattttg 50 214 <210> SEQ ID NO: 18 215 <211> LENGTH: 50 216 <212> TYPE: DNA 217 <213> ORGANISM: Artificial Sequence 219 <220> FEATURE: 220 <223> OTHER INFORMATION: primer 222 <400> SEQUENCE: 18 223 caaaatcaag gcctggagga cataaatata tgcttcgttc gttgctcaga 225 <210> SEQ ID NO: 19 226 <211> LENGTH: 33 227 <212> TYPE: DNA 228 <213> ORGANISM: Artificial Sequence 230 <220> FEATURE: 231 <223> OTHER INFORMATION: primer 233 <400> SEQUENCE: 19 33 234 gcatccatgg tatcatcctc cgttgatgtg atg 236 <210> SEQ ID NO: 20 237 <211> LENGTH: 29 238 <212> TYPE: DNA 239 <213> ORGANISM: Artificial Sequence 241 <220> FEATURE: 242 <223> OTHER INFORMATION: primer 244 <400> SEQUENCE: 20 29 245 tgataccatg gactttccgc agcaactcg 247 <210> SEQ ID NO: 21 248 <211> LENGTH: 32 249 <212> TYPE: DNA 250 <213> ORGANISM: Artificial Sequence 252 <220> FEATURE: 253 <223> OTHER INFORMATION: primer 255 <400> SEQUENCE: 21 32 256 gtacatgcat ttatttatta cgctggatga tg 258 <210> SEQ ID NO: 22 259 <211> LENGTH: 59 260 <212> TYPE: DNA 261 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING DATE: 02/10/2007 PATENT APPLICATION: US/10/573,796 TIME: 09:20:55

Input Set : E:\seqlist.txt

Output Set: N:\CRF4\02102007\J573796.raw

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 267 gggtaccggg cccccctcg cctctagagt cgactaggag gaattcacca tgagttttg 59
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 271 <212> TYPE: DNA
 272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
 275 <223> OTHER INFORMATION: synthetic amorphadiene synthase gene
 277 <400> SEQUENCE: 23
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 280 tgaacagatc gtaaacgacc tgaagaaaga agttcgtcag ctgctgaaag aagctctgga 180
 281 catcccgatg aaacacgcta acctgctgaa actgatcgac gagatccagc gtctgggtat 240
 282 cccgtaccac ttcgaacgcg aaatcgacca cgcactgcag tgcatctacg aaacctacgg 300
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. 286 gggtgaaatc atcetggagg aegegetggg titteaecegt tetegtetgt ceattatgae 540\dots_{k}
287 taaagacgct ttctctacta acceggetet gttcacegaa atceagegtg ctctgaaaca 600
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 289 gcaggactet cacaacaaga eeetgetgaa aetggetaag etggaattea aeetgetgea 720
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 303 gactactaaa aacatcccgc gcccgctgct gatggcagta atctacctgt gccagttcct 1560
 304 ggaagtacag tacgctggta aagataactt cactcgcatg ggcgacgaat acaaacacct 1620
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 313 <223> OTHER INFORMATION: synthetic amorphadiene synthase gene
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 318 acttgtctag catttgctgg acttctttct tcaagcagtc gacgactttc ttcgagacct 180
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319 gtagggctac tttgtgcgat tggacgactt tgactagctg ctctaggtcg cagacccata 240

VERIFICATION SUMMARY

DATE: 02/10/2007

PATENT APPLICATION: US/10/573,796

TIME: 09:20:56

Input Set : E:\seqlist.txt

Output Set: N:\CRF4\02102007\J573796.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date

الهواؤه المحار الأيهيا والمحارة المديرون بالمهيع الراموة الأراد